STN search 10/525194
11/12/2009

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                  (CS) field
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 NEWS  5  AUG 24  CA/CAplus enhanced with legal status information for
                  U.S. patents
 NEWS  6  SEP 09  50 Millionth Unique Chemical Substance Recorded in
                  CAS REGISTRY
 NEWS  7  SEP 11  WPIDS, WPINDEX, and WPIX now include Japanese FTERM
                  thesaurus
 NEWS  8  OCT 21  Derwent World Patents Index Coverage of Indian and
                  Taiwanese Content Expanded
 NEWS  9  OCT 21  Derwent World Patents Index enhanced with human
                  translated claims for Chinese Applications and
                  Utility Models
 NEWS 10  OCT 27  Free display of legal status information in CA/CAplus,
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FILE COVERS 1907 - 12 Nov 2009  VOL 151 ISS 20
FILE LAST UPDATED: 11 Nov 2009  (20091111/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Aug 2009

CAplus now includes complete International Patent Classification (IPC)
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L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2004:203793  CAPLUS
DN   140:254984
ED   Entered STN:  14 Mar 2004
TI   Monoaminofluorene dyes and organic light-emitting device using them
IN   Saito, Akihito; Hiraoka, Mizuho; Suzuki, Koichi; Senoo, Akihiro; Tanabe,
```

Hiroshi; Yamada, Naoki; Negishi, Chika
PA Canon Kabushiki Kaisha, Japan
SO PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07C211-61
ICS C09K011-06; H05B033-14
CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 25, 74, 76
FAN.CNT 1

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PI	WO 2004020387	A1	20040311	WO 2003-JP10260	20030812
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	JP 2004091350	A	20040325	JP 2002-252846	20020830
	JP 4125076	B2	20080723		
	AU 2003253443	A1	20040319	AU 2003-253443	20030812
	EP 1542962	A1	20050622	EP 2003-791210	20030812
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	US 20060166034	A1	20060727	US 2005-525194	20050222 <--
PRAI	JP 2002-252846	A	20020830		
	WO 2003-JP10260	W	20030812		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004020387	ICM	C07C211-61
	ICS	C09K011-06; H05B033-14
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4H006/AB92

AU 2003253443	IPCI	C07C0211-61 [ICM,7]; C07C0211-00 [ICM,7,C*]; H05B0033-14 [ICS,7]; C09K0011-06 [ICS,7]
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EP 1542962	IPCI	C07C0211-61 [ICM,7]; C07C0211-00 [ICM,7,C*]; C09K0011-06 [ICS,7]; H05B0033-14 [ICS,7]
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	NCL	428/690.000; 257/E51.051; 313/504.000; 313/506.000; 428/917.000; 546/094.000; 548/440.000; 564/426.000; 564/427.000; 564/429.000; 564/433.000
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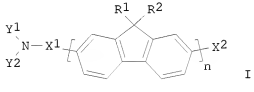
OS MARPAT 140:254984

GI



I

AB Novel monoaminofluorene dyes (I; R1, R2 = H, organic group; X = H, halogen, organic group, CN; Y1, Y2 = organic group, Y1 and Y2 together may form a ring; Z = organic divalent group, direct bond; n = 1-10) are provided. Organic light-emitting/electroluminescent devices using I exhibit good luminescence hue of extremely high purity and have optical output with high luminescence efficiency, high luminance and longer operating life. In an example, 2,2'-bis(9,9-dimethylfluorene) was prepared, monoiodinated on the 7-position, and condensed with bis(p-tolyl)amine to provide a

fluorescent dye.
ST fluorene amine dye prodn electroluminescent device
IT Electroluminescent devices
Fluorescent dyes
(production of monoaminofluorene dyes and organic light-emitting devices using them)
IT 361486-60-4 441352-90-5 475461-36-0 549528-98-5 608130-98-9 668994-18-1 668994-19-2 668994-20-5
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(in organic light-emitting devices using monoaminofluorene dyes)
IT 400607-20-7P 505078-42-2P 669059-71-6P 669059-73-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; production of monoaminofluorene dyes and organic light-emitting devices using them)
IT 669059-26-1 669059-28-3 669059-32-9 669059-33-0 669059-37-4 669059-39-6 669059-41-0 669059-43-2 669059-45-4 669059-47-6 669059-49-8 669059-51-2 669059-55-6 669059-57-8
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(monoaminofluorene dyes and organic light-emitting devices using them)
IT 669059-30-7P 669059-35-2P 669059-53-4P
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(production of monoaminofluorene dyes and organic light-emitting devices using them)
IT 620-93-9 4612-26-4, p-Phenylenediboronic acid 7553-56-2, Iodine, reactions 144981-85-1, 2-Iodo-9,9-dimethylfluorene 333432-28-3 654067-65-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; production of monoaminofluorene dyes and organic light-emitting devices using them)
OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
UPOS.G Date last citing reference entered STN: 16 Feb 2009
OS.G CAPLUS 2007:1300534; 2006:1096337; 2006:1007746; 2006:566609; 2006:318346; 2005:1075774
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE CITED REFERENCES
(1) Aventis Research & Technologies Gmbh & Co Kg; EP 1053578 A1 1999 CAPLUS
(2) Aventis Research & Technologies Gmbh & Co Kg; JP 2002503037 A 1999
(3) Aventis Research & Technologies Gmbh & Co Kg; WO 9940655 A1 1999 CAPLUS
(4) Canon Kabushiki Kaisha; JP 07-43920 A 1995 CAPLUS
(5) Canon Kabushiki Kaisha; JP 200166809 A 2001
(6) Fuji Photo Film Co Ltd; JP 2001192651 A 2001 CAPLUS
(7) Kelley, C; Journal of Chemical Research, Synopses 1997, V12, P446
(8) Mitsui Chemicals Inc; WO 0214244 A1 2002 CAPLUS
(9) Mitsui Chemicals Inc; EP 1221434 A1 2002 CAPLUS
(10) Mitsui Chemicals Inc; JP 2002154993 A 2002 CAPLUS
(11) Spreitzer, H; EP 1053216 A1 2003 CAPLUS
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(13) Spreitzer, H; US 20030065190 A1 2003
(14) Spreitzer, H; WO 9940051 A1 2003 CAPLUS
(15) Toray Industries Inc; JP 20028866 A 2002
(16) Uniax Corporation; JP 2000506916 A 1997
(17) Uniax Corporation; US 5900327 A 1997
(18) Uniax Corporation; EP 885461 A1 1997 CAPLUS
(19) Uniax Corporation; WO 9733323 A1 1997 CAPLUS

(20) Xerox Corporation; JP 10-255985 A 1999 CAPLUS
(21) Xerox Corporation; US 5989737 A 1999 CAPLUS

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E6 1 4612-26-4/BI
E7 1 475461-36-0/BI
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E9 1 549528-98-5/BI
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DICTIONARY FILE UPDATES: 11 NOV 2009 HIGHEST RN 1192206-33-9

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RN   669059-73-8  REGISTRY
ED   Entered STN:  31 Mar 2004
CN   9H-Fluorene, 2-[4-(9,9-dimethyl-9H-fluoren-2-yl)phenyl]-7-iodo-9,9-
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MF   C36 H29 I
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LC   STN Files:   CA, CAPLUS, USPATFULL
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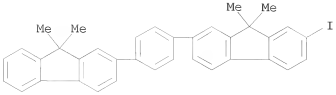

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ED Entered STN: 31 Mar 2004
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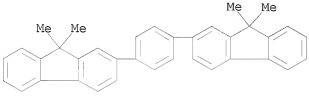

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-57-8 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9H-Carbazole, 9-[7-[4-(9,9-dimethyl-9H-fluoren-2-yl)-2,5-dimethylphenyl]-
9,9-dimethyl-9H-fluoren-2-yl]- (CA INDEX NAME)
MF C50 H41 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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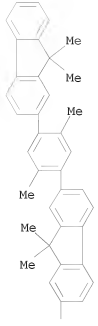
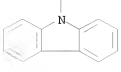


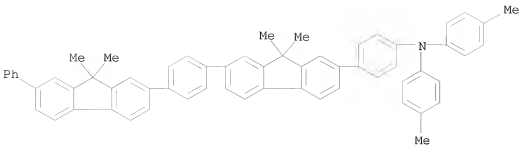
PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

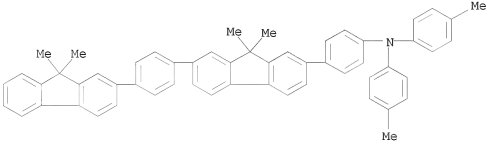
L2 ANSWER 4 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-55-6 REGISTRY
ED Entered STN: 31 Mar 2004
CN Benzenamine, 4-[7-[4-(9,9-dimethyl-7-phenyl-9H-fluoren-2-yl)phenyl]-9,9-dimethyl-9H-fluoren-2-yl]-N,N-bis(4-methylphenyl)- (CA INDEX NAME)
MF C62 H51 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

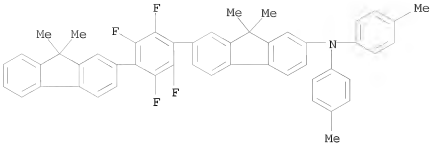
L2 ANSWER 5 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-53-4 REGISTRY
ED Entered STN: 31 Mar 2004
CN Benzenamine, 4-[7-[4-(9,9-dimethyl-9H-fluoren-2-yl)phenyl]-9,9-dimethyl-9H-fluoren-2-yl]-N,N-bis(4-methylphenyl)- (CA INDEX NAME)
MF C56 H47 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

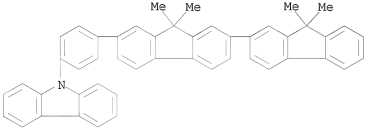
L2 ANSWER 6 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-51-2 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9H-Fluoren-2-amine, 7-[4-(9,9-dimethyl-9H-fluoren-2-yl)-2,3,5,6-tetrafluorophenyl]-9,9-dimethyl-N,N-bis(4-methylphenyl)- (CA INDEX NAME)
MF C50 H39 F4 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-49-8 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9H-Carbazole, 9-[4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)phenyl]-
(CA INDEX NAME)
MF C48 H37 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-47-6 REGISTRY
ED Entered STN: 31 Mar 2004
CN 1-Pyrenamine, N-(9,9,9',9',9'',9''-hexamethyl[2,2':7',2''-ter-9H-fluoren]-
7-yl)-N-phenyl- (9CI) (CA INDEX NAME)
MF C67 H51 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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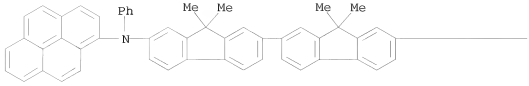

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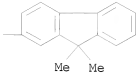

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-45-4 REGISTRY
ED Entered STN: 31 Mar 2004
CN [2,2':7',2''-Ter-9H-fluoren]-7-amine,
N-(9,9-dimethyl-9H-fluoren-2-yl)-9,9,9',9',9'',9''-hexamethyl-N-phenyl-
(9CI) (CA INDEX NAME)
MF C66 H55 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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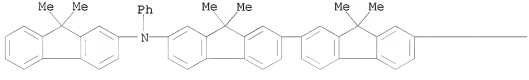

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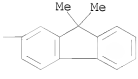
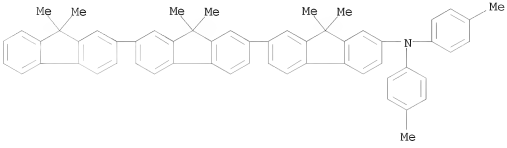


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

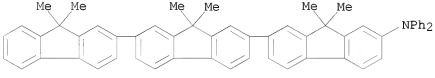
L2 ANSWER 10 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-43-2 REGISTRY
ED Entered STN: 31 Mar 2004
CN [2,2':7',2''-Ter-9H-fluoren]-7-amine,
9,9,9',9',9'',9''-hexamethyl-N,N-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)
MF C59 H51 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

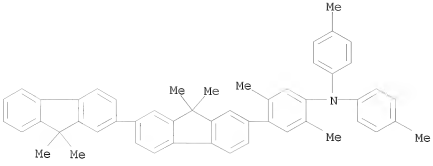
L2 ANSWER 11 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-41-0 REGISTRY
ED Entered STN: 31 Mar 2004
CN [2,2':7',2''-Ter-9H-fluoren]-7-amine,
9,9,9',9',9'',9''-hexamethyl-N,N-diphenyl- (9CI) (CA INDEX NAME)
MF C57 H47 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

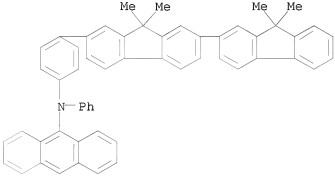
L2 ANSWER 12 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-39-6 REGISTRY
ED Entered STN: 31 Mar 2004
CN Benzenamine, 2,5-dimethyl-N,N-bis(4-methylphenyl)-4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)
MF C52 H47 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

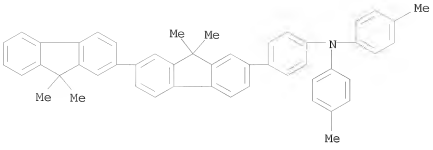
L2 ANSWER 13 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-37-4 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9-Anthracenamine, N-phenyl-N-[4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)phenyl]- (CA INDEX NAME)
MF C56 H43 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

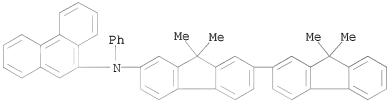
L2 ANSWER 14 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-35-2 REGISTRY
ED Entered STN: 31 Mar 2004
CN Benzenamine, N,N-bis(4-methylphenyl)-4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)
MF C50 H43 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

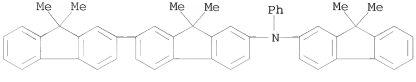
L2 ANSWER 15 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-33-0 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9-Phenanthrenamine, N-phenyl-N-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)
MF C50 H39 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

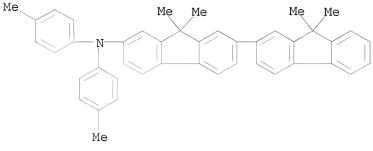
L2 ANSWER 16 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-32-9 REGISTRY
ED Entered STN: 31 Mar 2004
CN [2,2'-Bi-9H-fluoren]-7-amine, N-(9,9-dimethyl-9H-fluoren-2-yl)-9,9,9',9'-tetramethyl-N-phenyl- (CA INDEX NAME)
MF C51 H43 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

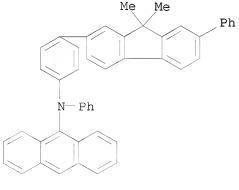
L2 ANSWER 17 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-30-7 REGISTRY
ED Entered STN: 31 Mar 2004
CN [2,2'-Bi-9H-fluoren]-7-amine, 9,9,9',9'-tetramethyl-N,N-bis(4-methylphenyl)- (CA INDEX NAME)
MF C44 H39 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

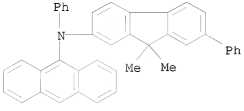
L2 ANSWER 18 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-28-3 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9-Anthracenamine, N-[4-(9,9-dimethyl-7-phenyl-9H-fluoren-2-yl)phenyl]-N-phenyl- (CA INDEX NAME)
MF C47 H35 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

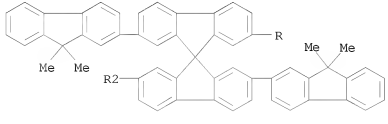
L2 ANSWER 19 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 669059-26-1 REGISTRY
ED Entered STN: 31 Mar 2004
CN 9-Anthracenamine, N-(9,9-dimethyl-7-phenyl-9H-fluoren-2-yl)-N-phenyl- (CA INDEX NAME)
MF C41 H31 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

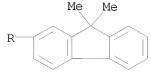


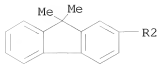
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 20 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 668994-20-5 REGISTRY
ED Entered STN: 30 Mar 2004
CN 9,9'-Spirobi[9H-fluorene], 2,2',7,7'-tetrakis(9,9-dimethyl-9H-fluoren-2-yl)- (CA INDEX NAME)
MF C85 H64
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



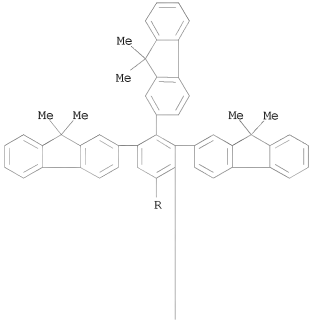


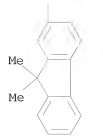


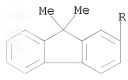
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 668994-19-2 REGISTRY
ED Entered STN: 30 Mar 2004
CN 9H-Fluorene, 2,2',2'',2''',2''''-(1,2,3,4,5-benzenepentayl)pentakis[9,9-dimethyl- (CA INDEX NAME)
MF C81 H66
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



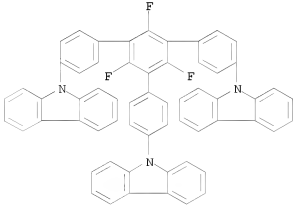




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 668994-18-1 REGISTRY
ED Entered STN: 30 Mar 2004
CN 9H-Carbazole, 9,9'-[5'-[4-(9H-carbazol-9-yl)phenyl]-2',4',6'-trifluoro[1,1':3',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)
MF C60 H36 F3 N3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

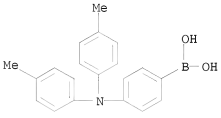


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 654067-65-9 REGISTRY

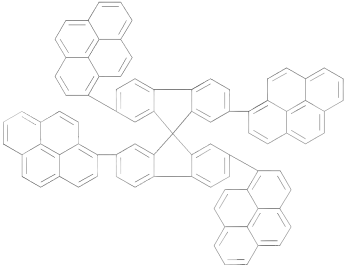
ED Entered STN: 25 Feb 2004
CN Boronic acid, B-[4-[bis(4-methylphenyl)amino]phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, [4-[bis(4-methylphenyl)amino]phenyl]- (9CI)
MF C20 H20 B N O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 608130-98-9 REGISTRY
ED Entered STN: 23 Oct 2003
CN 9,9'-Spirobi[9H-fluorene], 2,2',7,7'-tetra-1-pyrenyl- (CA INDEX NAME)
DR 890947-45-2
MF C89 H48
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 549528-98-5 REGISTRY
ED Entered STN: 17 Jul 2003
CN 2,2':7',2'':7'',2''':7''',2''''-Quinque-9H-fluorene,
9,9,9',9',9'',9'',9''',9''',9'''',9''''-decamethyl- (9CI) (CA INDEX NAME)
MF C75 H62
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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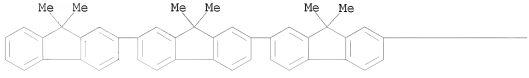
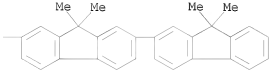


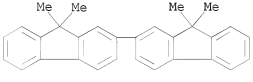
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 505078-42-2 REGISTRY
ED Entered STN: 25 Apr 2003
CN 2,2'-Bi-9H-fluorene, 9,9,9',9'-tetramethyl- (CA INDEX NAME)
MF C30 H26
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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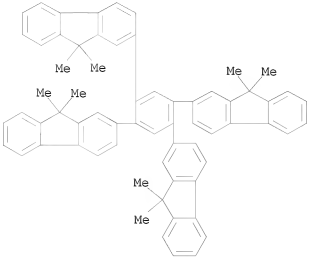
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 27 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 475461-36-0 REGISTRY
ED Entered STN: 09 Dec 2002

CN 9H-Fluorene, 2,2',2'',2'''-(1,2,4,5-benzenetetrayl)tetrakis[9,9-dimethyl-
(CA INDEX NAME)
MF C66 H54
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 441352-90-5 REGISTRY
ED Entered STN: 31 Jul 2002
CN 9H-Fluorene, 2,2',2''-(1,3,5-benzenetriyl)tris[9,9-dimethyl- (CA INDEX
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MF C51 H42
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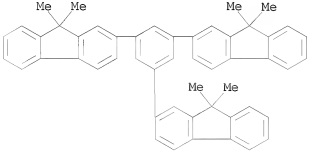
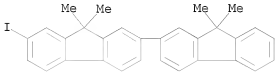


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1907 TO DATE)

14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 29 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 400607-20-7 REGISTRY
ED Entered STN: 12 Mar 2002
CN 2,2'-Bi-9H-fluorene, 7-iodo-9,9,9',9'-tetramethyl- (CA INDEX NAME)
MF C30 H25 I
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 361486-60-4 REGISTRY
ED Entered STN: 11 Oct 2001
CN [1,1'-Biphenyl]-4,4'-diamine, N4,N4'-bis(9,9-dimethyl-9H-fluoren-2-yl)-N4,N4'-diphenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN [1,1'-Biphenyl]-4,4'-diamine, N,N'-bis(9,9-dimethyl-9H-fluoren-2-yl)-N,N'-diphenyl- (9CI)
OTHER NAMES:
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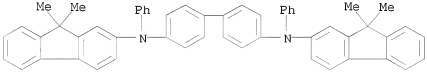
CN F 01
CN F 01 (ligand)
MF C54 H44 N2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



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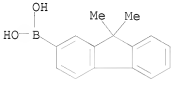
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
75 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 333432-28-3 REGISTRY
ED Entered STN: 30 Apr 2001
CN Boronic acid, B-(9,9-dimethyl-9H-fluoren-2-yl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, (9,9-dimethyl-9H-fluoren-2-yl)- (9CI)

OTHER NAMES:
CN 9,9-Dimethyl-9H-fluoren-2-ylboronic acid
MF C15 H15 B O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL



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55 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 144981-85-1 REGISTRY
ED Entered STN: 18 Dec 1992
CN 9H-Fluorene, 2-iodo-9,9-dimethyl- (CA INDEX NAME)
OTHER NAMES:
CN 2-Iodo-9,9-dimethyl-9H-fluorene
CN 2-Iodo-9,9-dimethylfluorene
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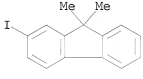
MF C15 H13 I
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

82 REFERENCES IN FILE CA (1907 TO DATE)
83 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 7553-56-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Iodine (CA INDEX NAME)
OTHER NAMES:
CN Actomar
CN DentaPure DP 90
CN Diatomic iodine
CN Diiodine
CN Eranol
CN Iodel FD
CN Iodine (127I2)
CN Iodine colloidal

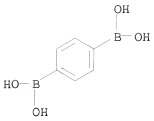
CN Iodine crystals
CN Iodine molecule (I2)
CN Iodine sublimed
CN Iodomarin
CN Iosan Superdip
CN Jodosan
CN Molecular iodine
CN NSC 42355
CN Tegodyne
DR 8012-81-5, 8012-85-9, 8031-47-8, 24503-90-0
MF I2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

I—I

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

68518 REFERENCES IN FILE CA (1907 TO DATE)
4054 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
68695 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 34 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4612-26-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Boronic acid, B,B'-1,4-phenylenebis- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, 1,4-phenylenebis- (9CI)
CN p-Benzenediboronic acid (6CI, 7CI, 8CI)
OTHER NAMES:
CN 1,4-Phenylenebisboronic acid
CN 1,4-Phenylenediboronic acid
CN Benzene-1,4-diboronic acid
CN NSC 25410
CN p-Phenylenebis(boric acid)
CN p-Phenylenediboronic acid
MF C6 H8 B2 O4
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, GMELIN*, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)



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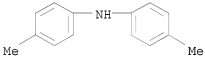
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
212 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 35 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN
RN 620-93-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenamine, 4-methyl-N-(4-methylphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Di-p-tolylamine (6CI, 7CI, 8CI)
OTHER NAMES:
CN 4,4'-Dimethyldiphenylamine
CN Bis(4-methylphenyl)amine
CN Bis(p-tolyl)amine
CN N,N-Bis(4-methylphenyl)amine
CN N-p-Tolyl-p-toluidine
MF C14 H15 N
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

421 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
421 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	73.19	80.35
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.82

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STRUCTURE FILE UPDATES:   11 NOV 2009  HIGHEST RN 1192206-33-9
DICTIONARY FILE UPDATES:  11 NOV 2009  HIGHEST RN 1192206-33-9

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

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http://www.cas.org/support/stngen/stndoc/properties.html

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SET COMMAND COMPLETED

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=>  SEL L2 17 RN

E1 THROUGH E1 ASSIGNED

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L3            1 669059-30-7/RN

=>  SET TERMSET LOGIN

SET COMMAND COMPLETED

=>  FIL CAPLUS

COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY    SESSION
FULL ESTIMATED COST                              0.58      80.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                              0.00      -0.82

FILE 'CAPLUS' ENTERED AT 10:46:30 ON 12 NOV 2009
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FILE COVERS 1907 - 12 Nov 2009 VOL 151 ISS 20
FILE LAST UPDATED: 11 Nov 2009 (20091111/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

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offer appear in NEWS 10.

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L4 3 L3

=> DIS L4 1 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 3.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:330191 CAPLUS
DOCUMENT NUMBER: 146:326163
TITLE: Pyrene derivative and organic electroluminescence device
INVENTOR(S): Ito, Mitsunori; Kubota, Mineyuki; Funahashi, Masakazu
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: PCT Int. Appl., 92pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007032162	A1	20070322	WO 2006-JP315687	20060808
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,				

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     EP 1932895          A1   20080618    EP 2006-782513          20060808
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     US 20090058270      A1   20090305    US 2007-929122          20071030
     KR 2008052594       A    20080611    KR 2008-706391          20080314
     CN 101268167        A    20080917    CN 2006-80034089        20080317
PRIORITY APPLN. INFO.:                   JP 2005-270664      A   20050916
                                         WO 2006-JP315687    W   20060808
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ABSTRACT:
An organic electroluminescence device comprising a neg. electrode and a pos. electrode and one or two or more organic thin-film layers including at least a light emitting layer, wherein the light emitting layer contains a pyrene derivative AkXmArnYoBp [X = (un)substituted pyrene; A,B = H, (un)substituted C6-50 aromatic hydrocarbon, (un)substituted C5-50 aromatic heterocycle or (un)substituted C1-30 (un)saturated alkylene; Ar = (un)substituted C6-50 aromatic hydrocarbon or (un)substituted C5-50 aromatic heterocycle; Y = (un)substituted C1-50 condensed ring or condensed heterocycle; k, o, p = 0 - 10, m = 1 - 10, n > 3] and an amine compound Y1(Y2)NPq(NY3(Y4))r [P = (un)substituted C6-40 aromatic hydrocarbon, (un)substituted C3-40 heterocycle, (un)substituted styryl or (un)substituted C10-40 condensed aromatic; Y1-4 = (un)substituted alkylene, aralkylene, alkenylene, amino or silyl, (un)substituted arylene or unsubstituted carbonyl or ether or thio ester containing divalent heterocycle chains; q = 1 - 20, r = 0 - 3]. The organic electroluminescence device excels in heat resistance, ensuring prolonged operating life and high luminous efficiency, and is capable of emitting blue, green and red lights.


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OS.CITING REF COUNT:     2     THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
                               (2 CITINGS)
REFERENCE COUNT:         26    THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> DIS L4 2 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 3.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4   ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:        2007:329265  CAPLUS
DOCUMENT NUMBER:         146:347149
TITLE:                   Asymmetric fluorene derivative and organic
                         electroluminescent element containing the same
INVENTOR(S):             Ito, Mitsunori; Kubota, Mineyuki; Funahashi, Masakazu
PATENT ASSIGNEE(S):      Idemitsu Kosan Co., Ltd., Japan
SOURCE:                  PCT Int. Appl., 91pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                Japanese
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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     WO 2007032161        A1    20070322    WO 2006-JP315643       20060808
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KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,
SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
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KG, KZ, MD, RU, TJ, TM

EP 1926159	A1	20080528	EP 2006-782469			20060808	
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR							
US 20090261711	A1	20091022	US 2007-928656			20071030	
KR 2008052589	A	20080611	KR 2008-706136			20080313	
IN 2008CN01270	A	20081128	IN 2008-CN1270			20080314	
CN 101268567	A	20080917	CN 2006-80034222			20080317	
PRIORITY APPLN. INFO.:			JP 2005-268968		A	20050915	
			WO 2006-JP315643		W	20060808	

ABSTRACT:
The invention refers to an organic electroluminescent element which comprises a cathode and an anode and, sandwiched there between, one or more thin organic layers comprising a luminescent layer, wherein at least one of the thin organic layers comprises an asym. fluorene derivative compound ArlkAFl1kBFL2nCAr2p [Arl,2 = (un)substituted C6-50 aromatic hydrocarbon or heterocycle; A,B,C = single bond, (un)substituted alkylene, aralkylene, arylene or heteroatom, or alkylene, aralkylene alkynyl, amino, silyl, carbonyl ether or thioether having (un)substituted arylene or divalent heterocycle; Fl1,2 = (un)substituted fluorenediyl; k, p = 0 - 10, k + p ≥ 1; m,n = 1 - 10, m + n ≥ 1] and an amine compound Y1Y2NPq(NY3Y4)r [P = (un)substituted C6-40 aromatic hydrocarbon, C3-40 heterocycle, styryl, or (un)substituted C10.40 condensed aromatic]. This organic electroluminescent element has excellent heat resistance and
a long life and can emit any of blue, green, and red lights at a high luminescent efficiency.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT